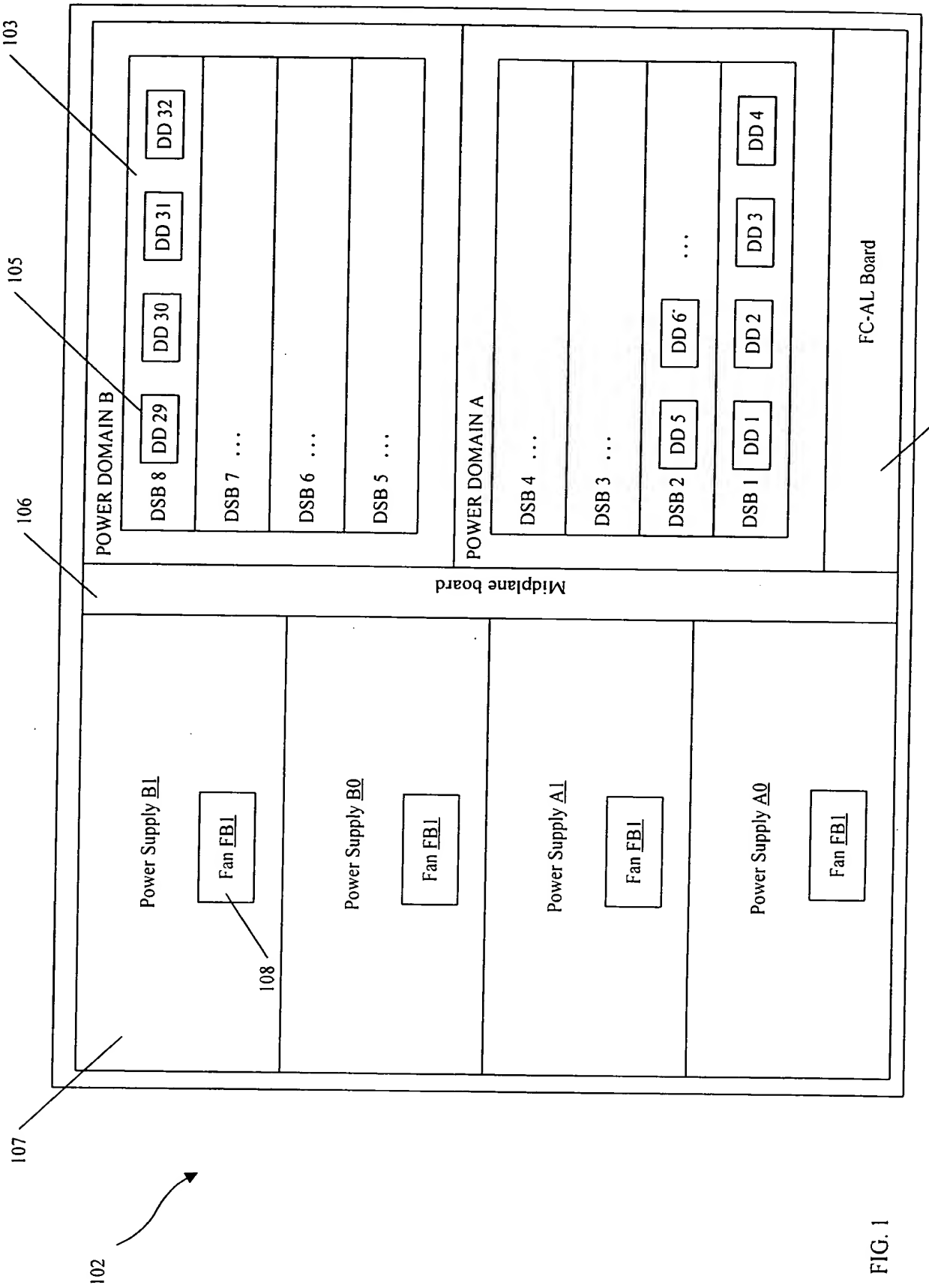
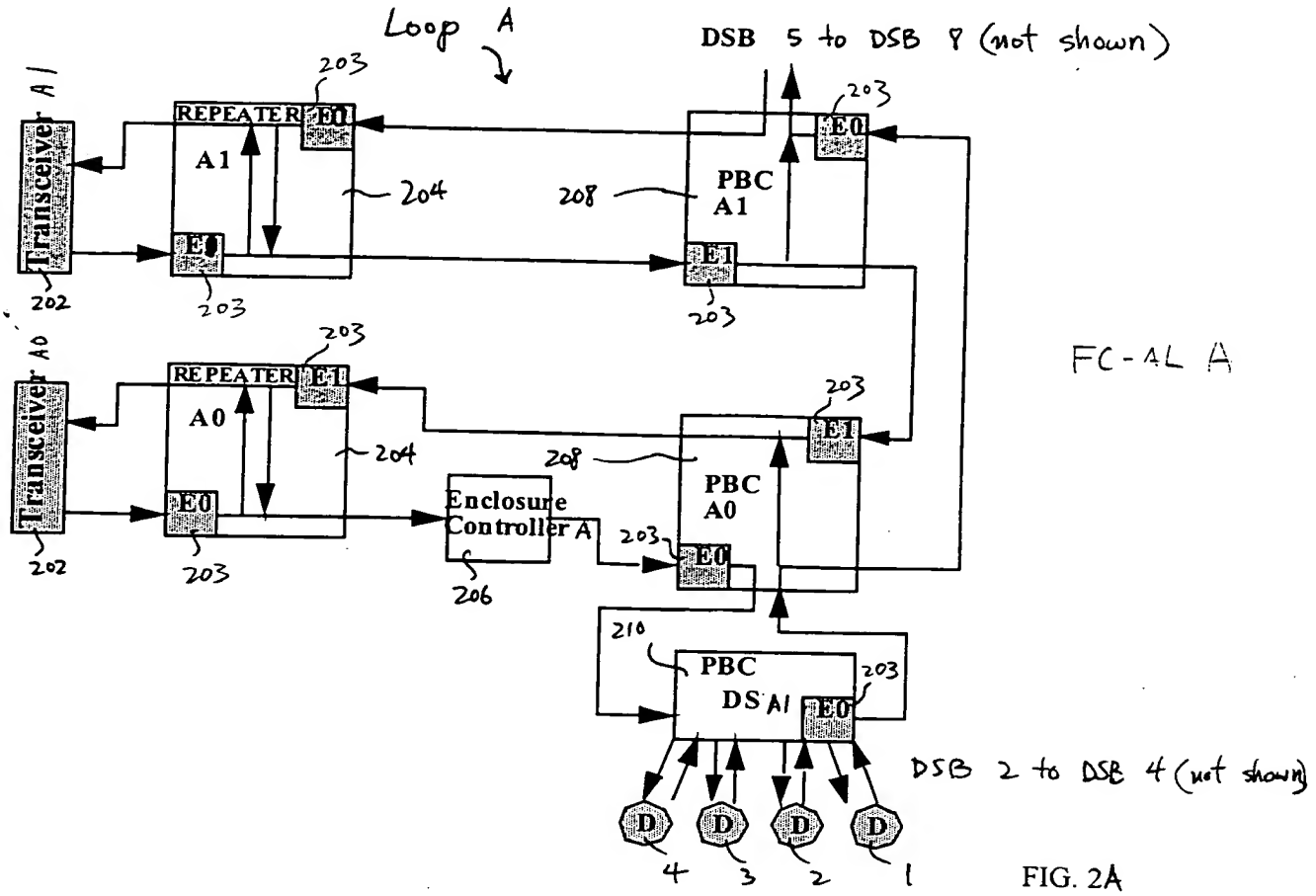
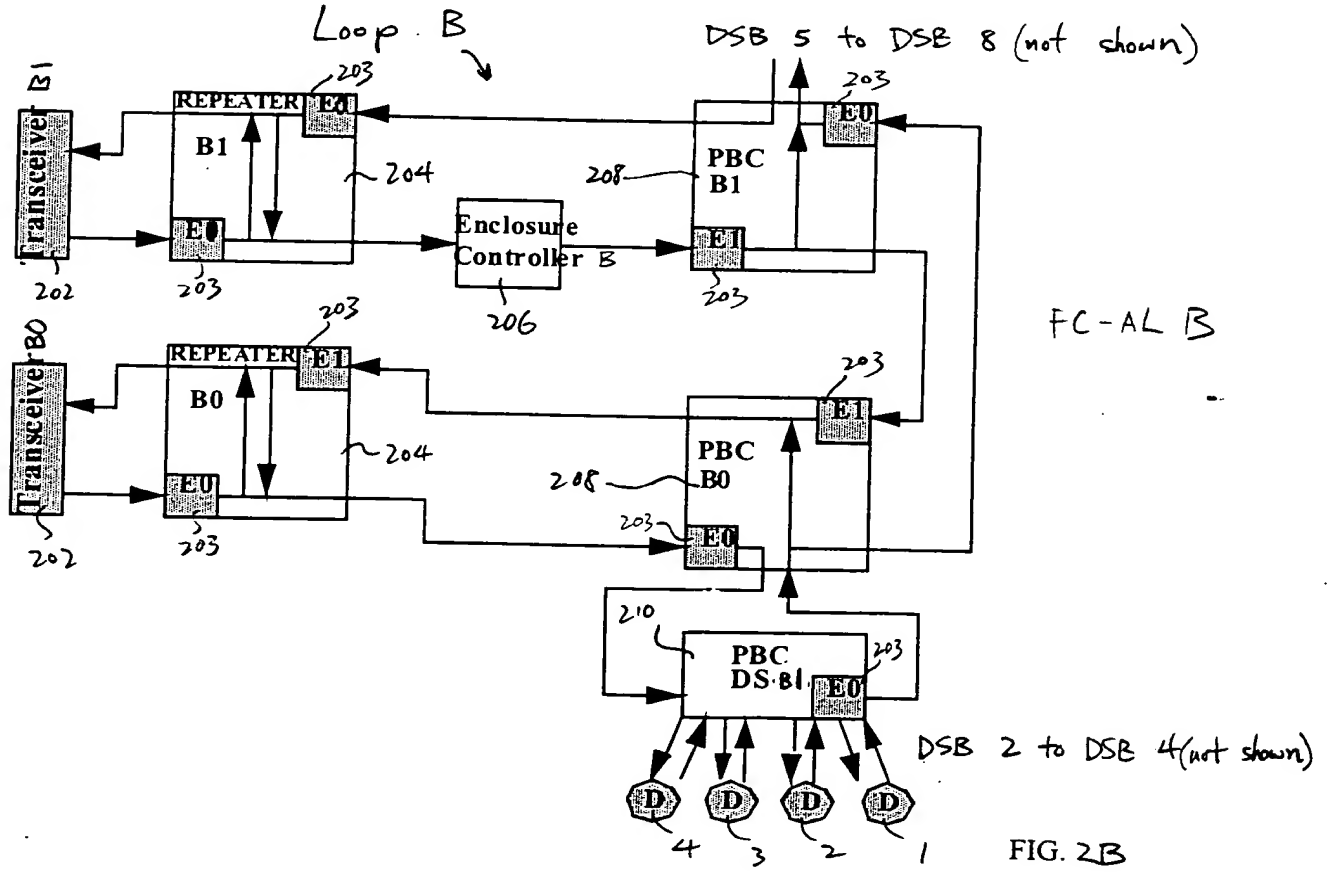

102
103
104
105
106
107
108
POWER DOMAIN B
DSB 8
DD 29
DD 30
DD 31
DD 32
DSB 7 ...
DSB 6 ...
DSB 5 ...
POWER DOMAIN A
DSB 4 ...
DSB 3 ...
DSB 2
DD 5
DD 6'
...
DSB 1
DD 1
DD 2
DD 3
DD 4
FC-AL Board
Midplane board
Power Supply B1
Fan FB1
Power Supply B0
Fan FB1
Power Supply A1
Fan FB1
Power Supply A0
Fan FB1

FIG. 1



FC-AL A

FIG. 2A



FC-AL B

FIG. 2B

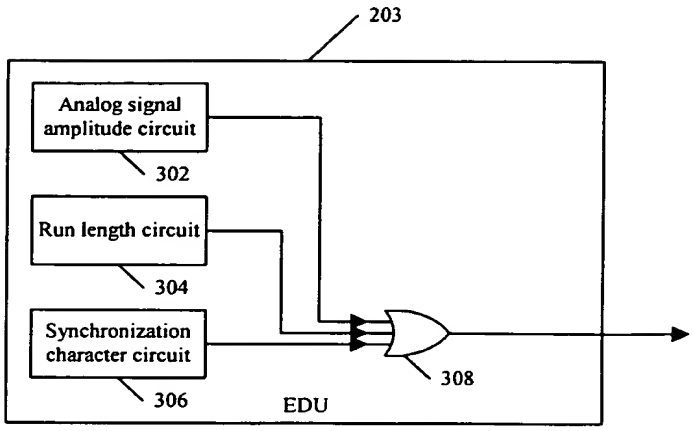

203
Analog signal amplitude circuit
302
Run length circuit
304
Synchronization character circuit
306
308
EDU

FIG. 3A

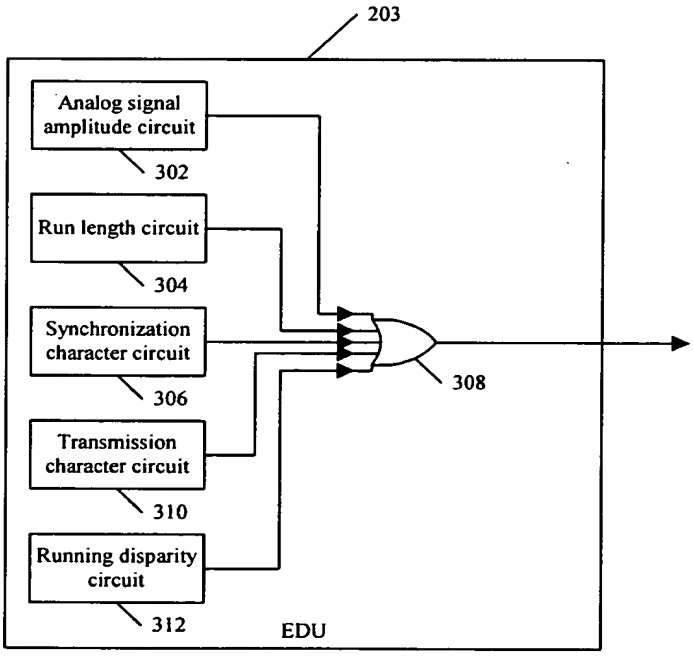

203
Analog signal amplitude circuit
302
Run length circuit
304
Synchronization character circuit
306
Transmission character circuit
310
Running disparity circuit
312
308
EDU

FIG. 3B

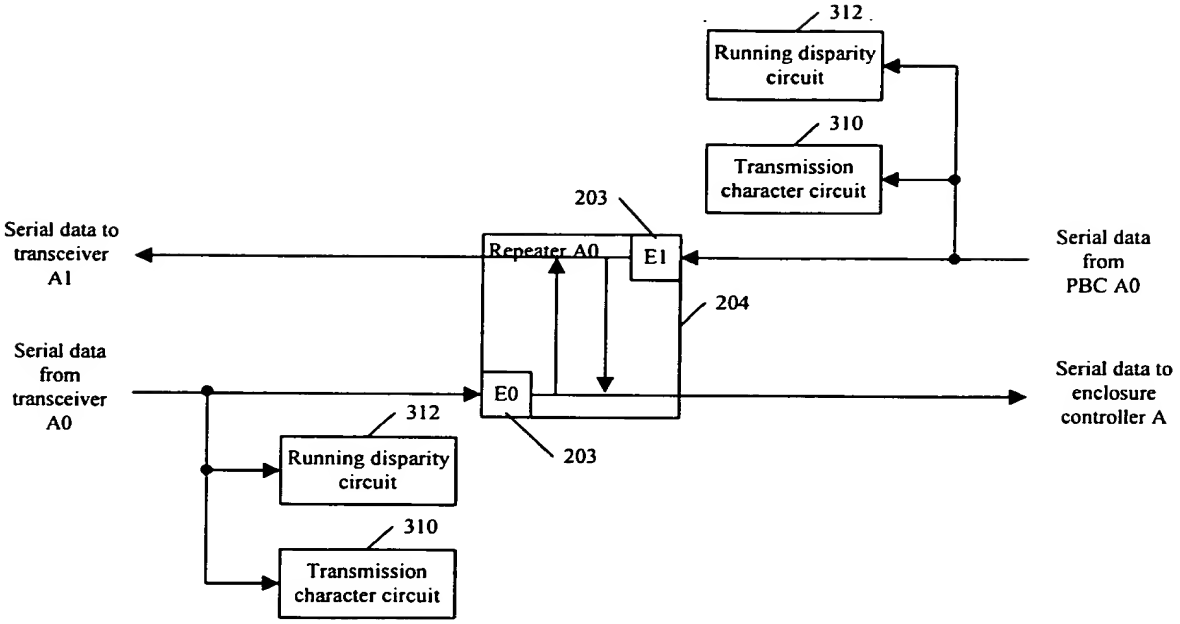

312
Running disparity circuit
310
Transmission character circuit
203
Serial data to transceiver A1
Repeater A0
E1
Serial data from PBC A0
204
Serial data from transceiver A0
E0
Serial data to enclosure controller A
312
Running disparity circuit
203
310
Transmission character circuit

FIG. 3C

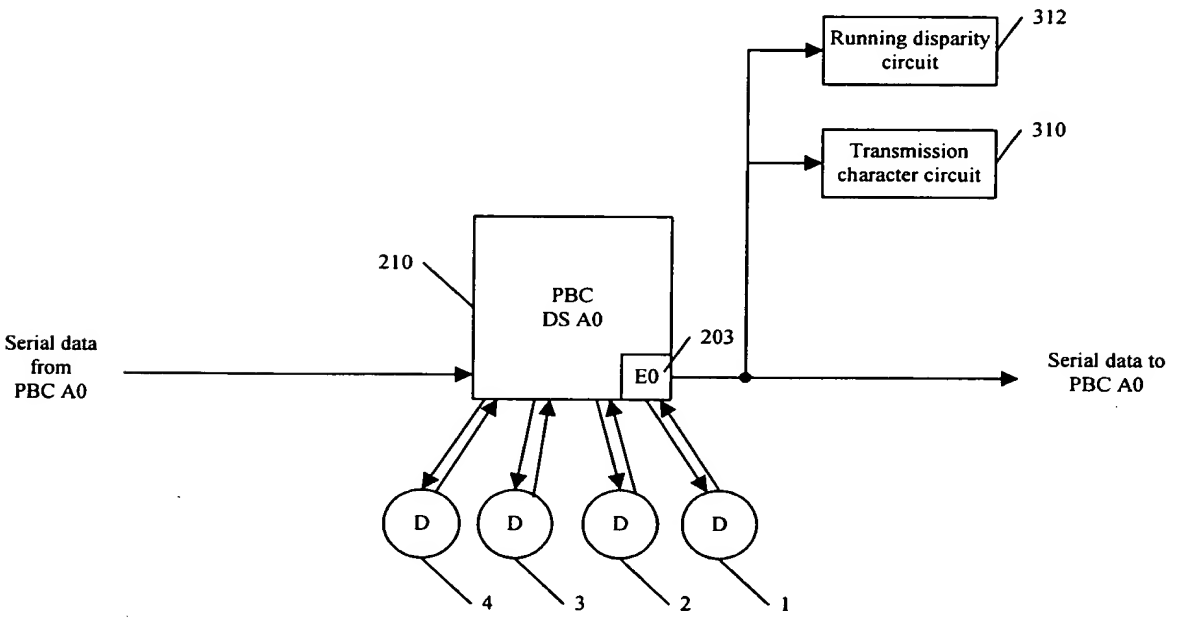

312
Running disparity circuit
310
Transmission character circuit
210
PBC DS A0
203
Serial data from PBC A0
E0
Serial data to PBC A0
D
D
D
D
4
3
2
1

FIG. 3D

FIG. 4A	FIG. 4B

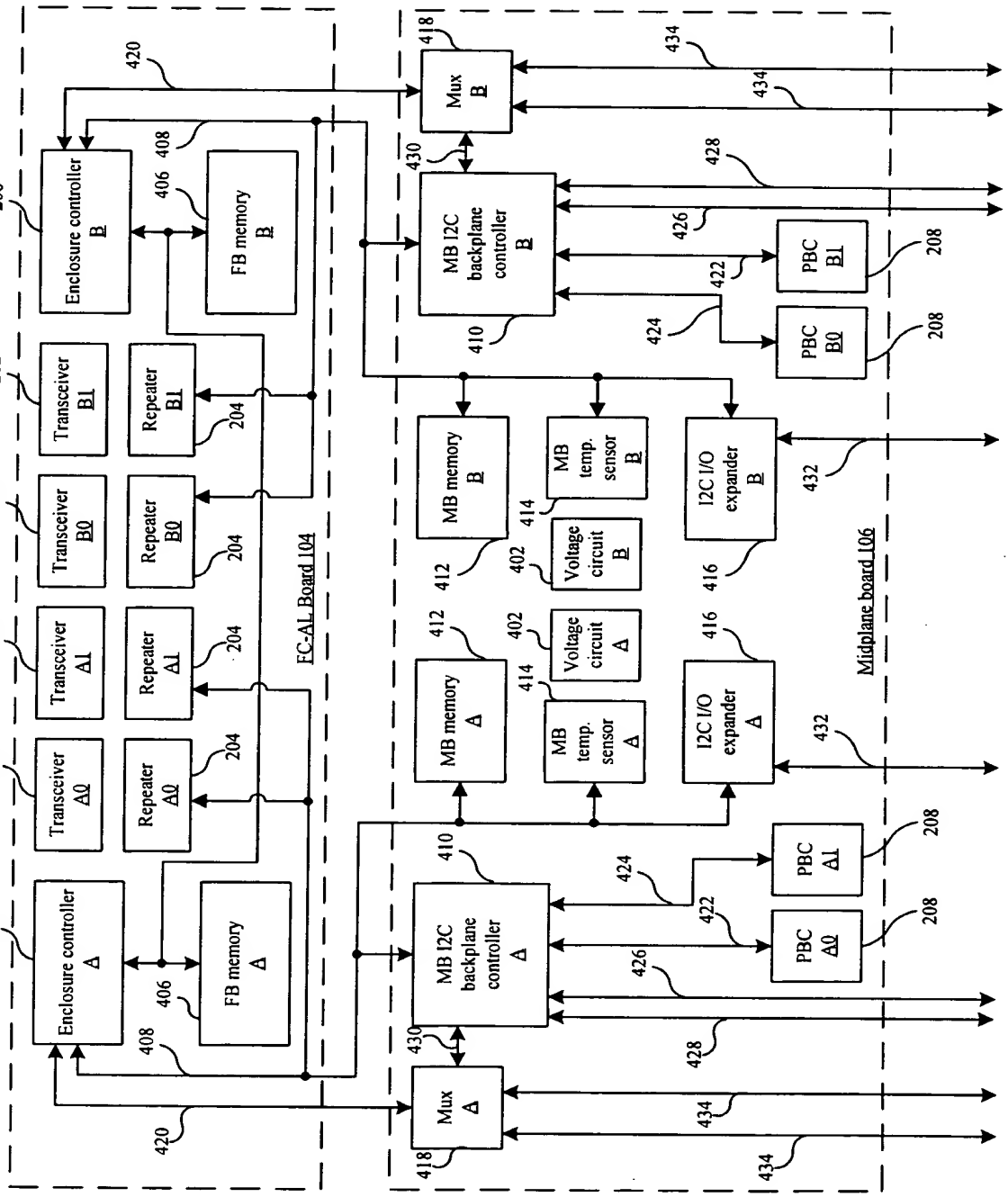


FIG. 4A

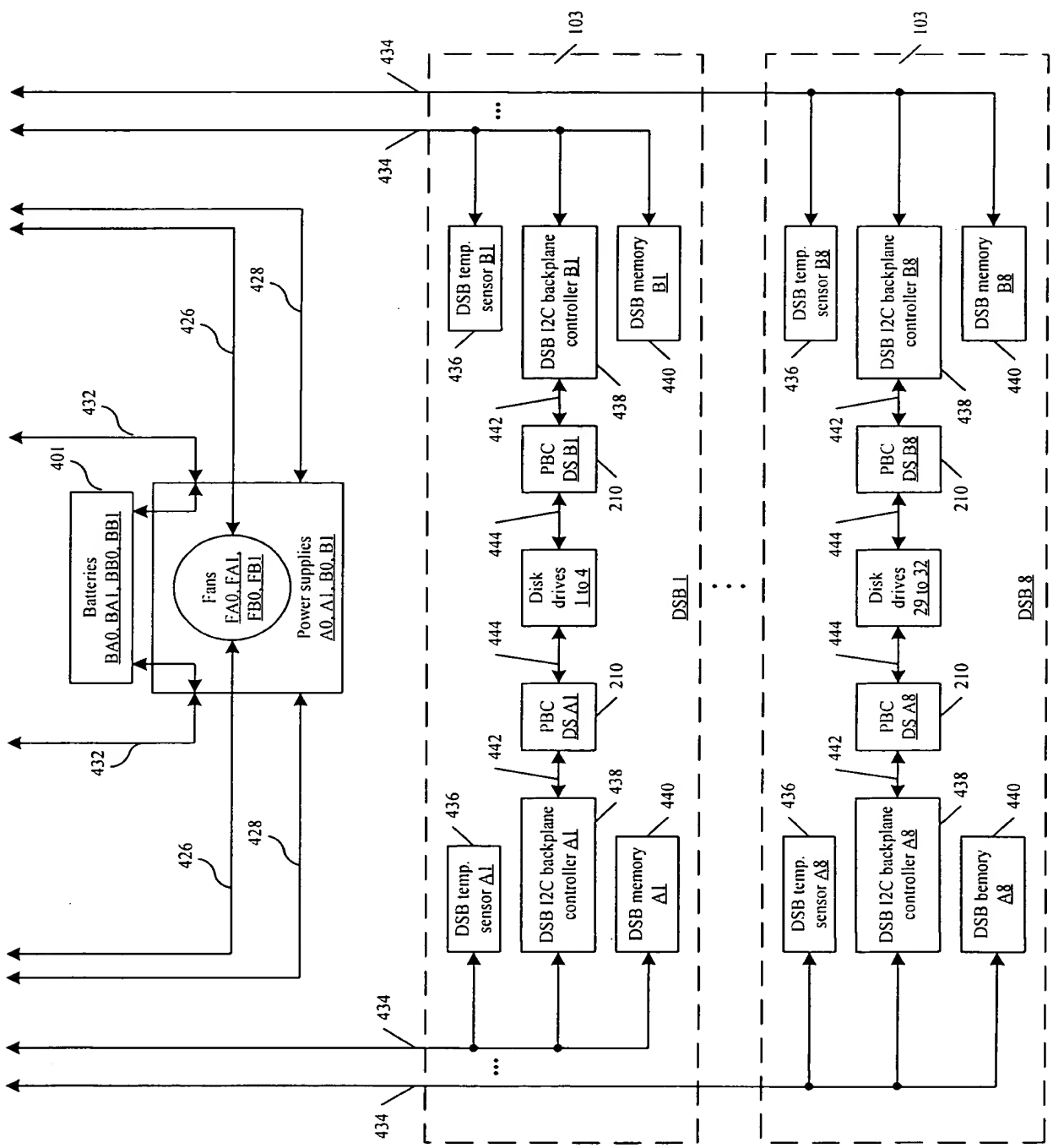

Batteries BA0, BA1, BB0, BB1
Fans FA0, FA1, FB0, FB1
Power supplies A0, A1, B0, B1
401
426
428
432
434
103
DSB temp. sensor B1
DSB I2C backplane controller B1
DSB memory B1
PBC DS B1
Disk drives 1 to 4
PBC DS A1
DSB temp. sensor A1
DSB I2C backplane controller A1
DSB memory A1
DSB 1
DSB temp. sensor B8
DSB I2C backplane controller B8
DSB memory B8
PBC DS B8
Disk drives 29 to 32
PBC DS A8
DSB temp. sensor A8
DSB I2C backplane controller A8
DSB bemory A8
DSB 8
436
438
440
442
444
210

FIG. 4B

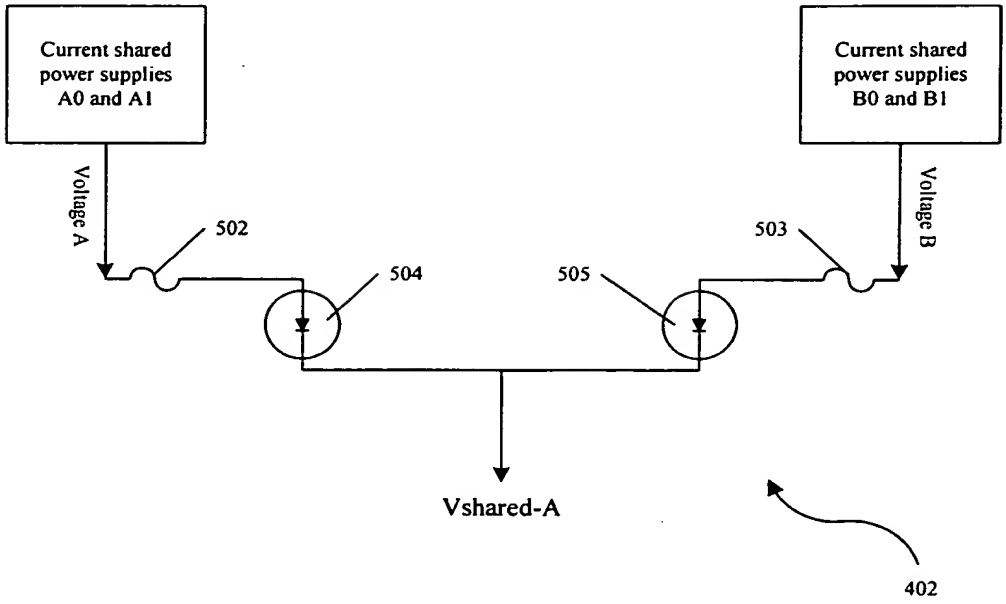

Current shared power supplies A0 and A1
Current shared power supplies B0 and B1
Voltage A
Voltage B
502
503
504
505
Vshared-A
402

FIG. 5

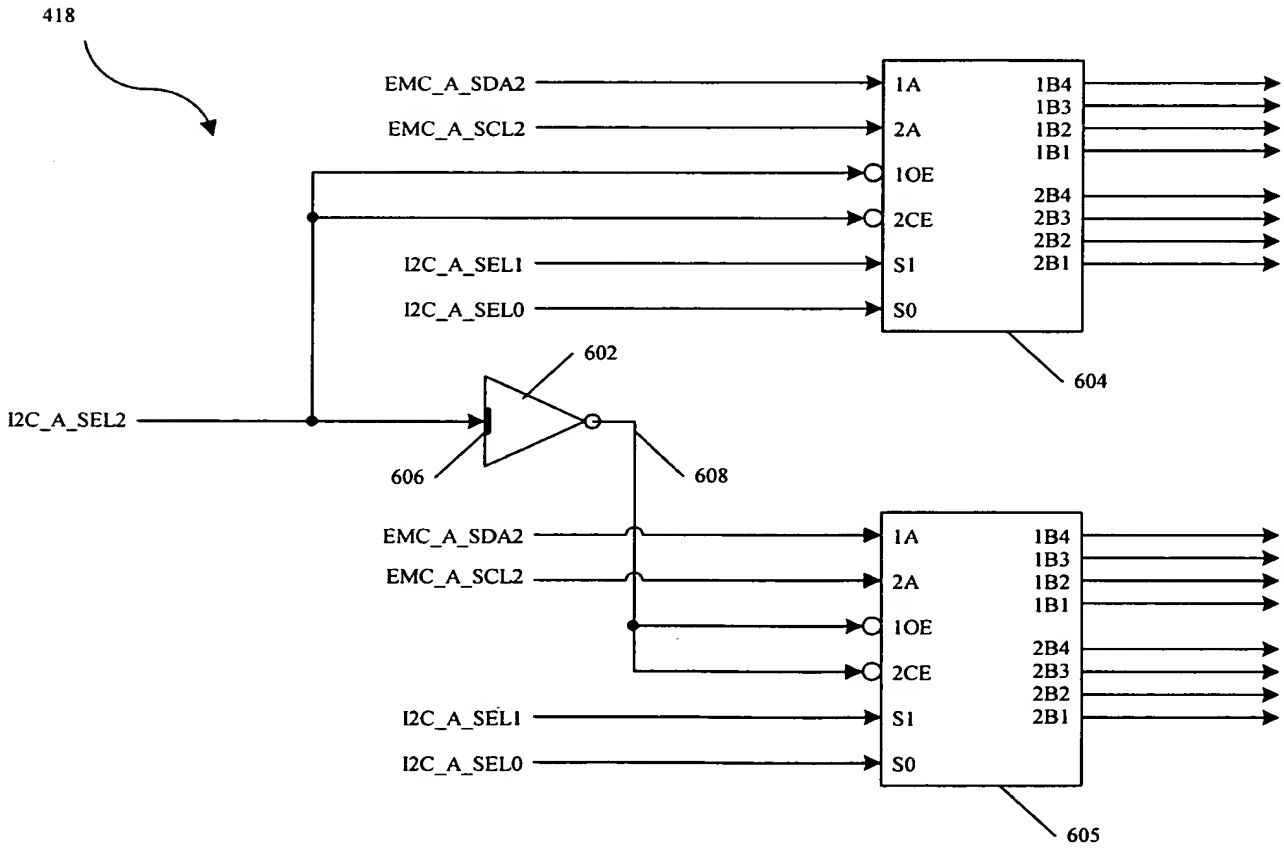

418
EMC_A_SDA2
EMC_A_SCL2
I2C_A_SEL1
I2C_A_SEL0
1A
2A
1OE
2CE
S1
S0
1B4
1B3
1B2
1B1
2B4
2B3
2B2
2B1
604
602
606
608
I2C_A_SEL2
605

FIG. 6

FIG. 7A	FIG. 7B	FIG. 7C

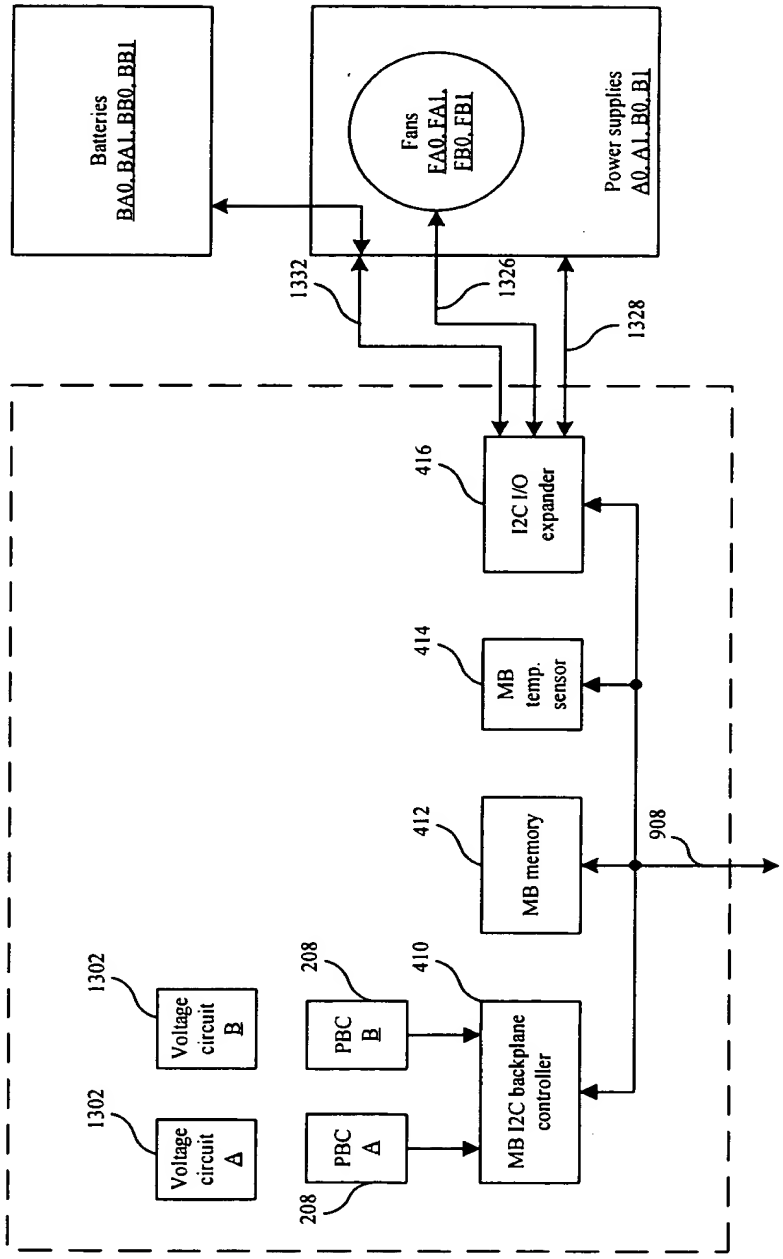


FIG. 7A

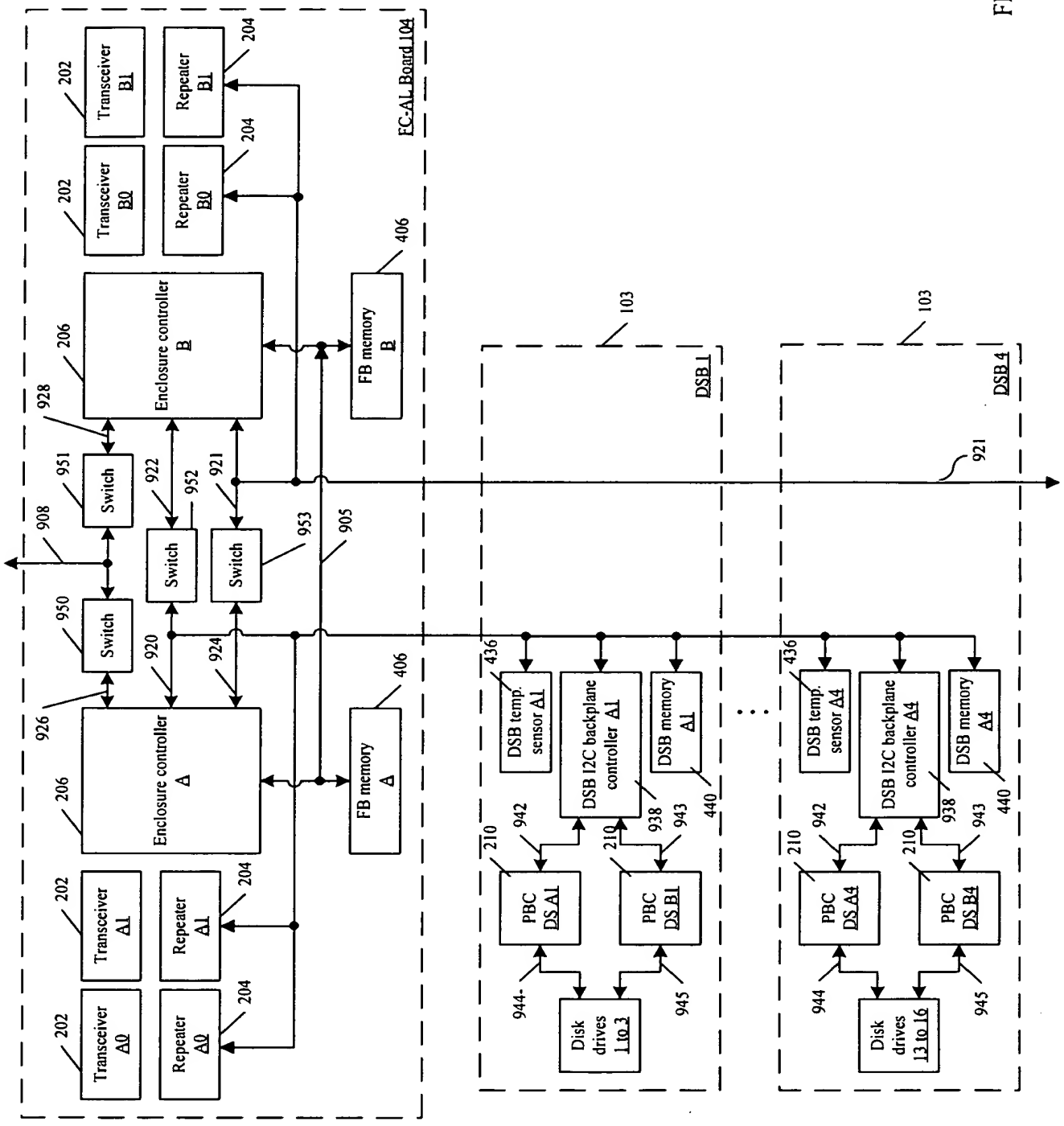

EC-AL Board 104
Transceiver B1
Transceiver B0
Transceiver A1
Transceiver A0
Repeater B1
Repeater B0
Repeater A1
Repeater A0
Enclosure controller B
Enclosure controller A
FB memory B
FB memory A
Switch
Switch
Switch
Switch
DSB 1
DSB 4
DSB temp. sensor A1
DSB I2C backplane controller A1
DSB memory A1
DSB temp. sensor A4
DSB I2C backplane controller A4
DSB memory A4
PBC DS A1
PBC DS B1
PBC DS A4
PBC DS B4
Disk drives 1 to 3
Disk drives 13 to 16
202
204
206
210
406
436
440
903
905
908
920
921
922
924
926
928
938
942
943
944
945
950
951
952
953

FIG. 7B

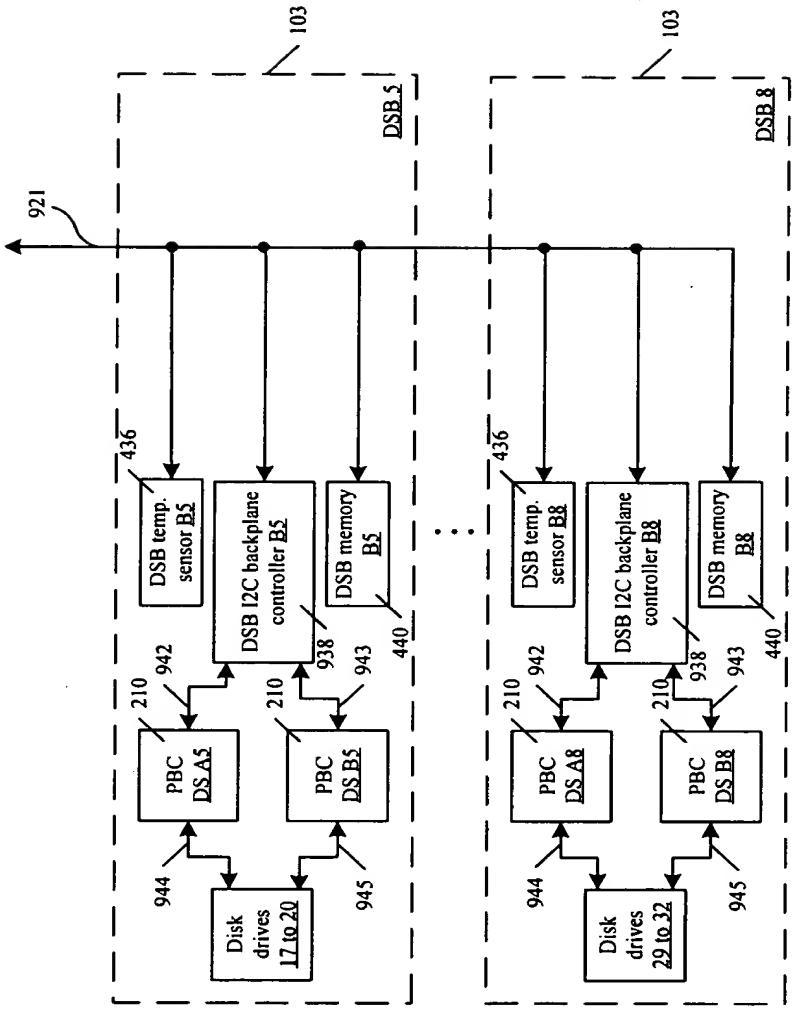

103
DSB 5
921
436
DSB temp. sensor B5
DSB I2C backplane controller B5
DSB memory B5
440
938
942
943
210
PBC DS A5
PBC DS B5
944
945
Disk drives 17 to 20
103
DSB 8
436
DSB temp. sensor B8
DSB I2C backplane controller B8
DSB memory B8
440
938
942
943
210
PBC DS A8
PBC DS B8
944
945
Disk drives 29 to 32

FIG. 7C

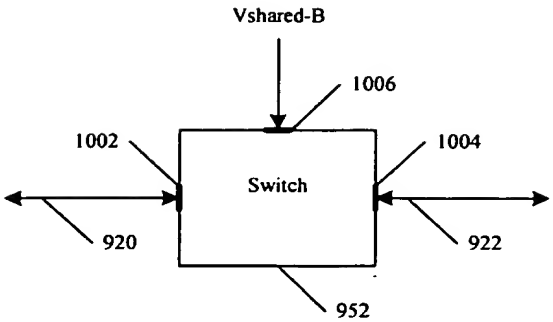


FIG. 8

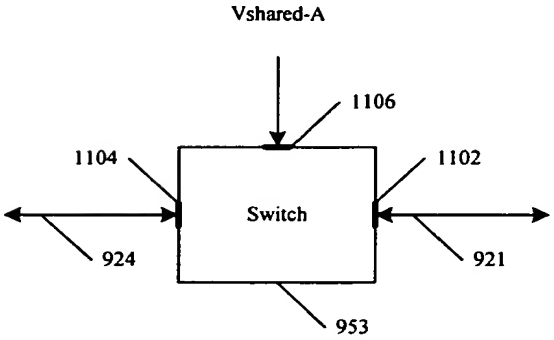


FIG. 9

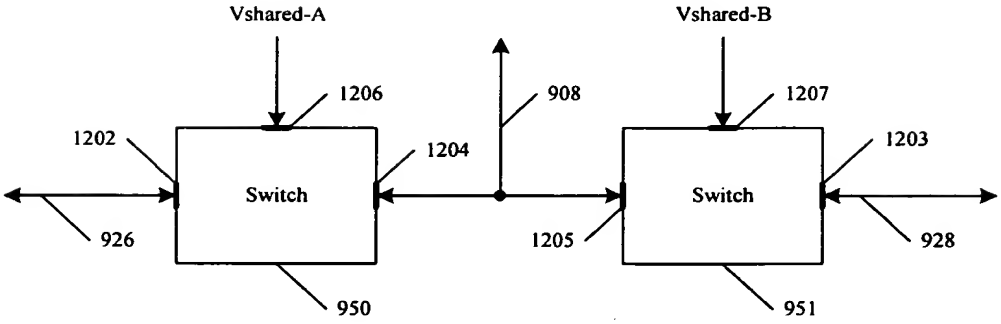


FIG. 10